

WHAT IS CLAIMED IS:

- 1) Contactless data transmission system with
5 - an encoding algorithm (A64) with which
 - the input data (R_{64} , R_{32}), which are processed with the encoding
 algorithm (A64), are linked with
 - a secret code (CODE) that determines the encoding algorithm
 (A64),
10 **wherein** the data transmission system has a facility (12, S64/S32) for
 setting to different formats of the input data (R_{64} , R_{32}) for the encoding
 algorithm (A64).
- 2) Contactless data transmission system in accordance with Patent Claim
15 1, **wherein** the facility for setting to different formats of the input data
 (R_{64} , R_{32}) is a control line (S64/S32).
- 3) Contactless data transmission system in accordance with Patent Claim
20 1, **wherein** the facility for setting to different formats of the input data
 (R_{64} , R_{32}) is a switch (12).
- 4) Method for a contactless data transmission system in accordance with
25 Patent Claim 1, **wherein** the same encoding algorithm (A64) is used
 for the various formats of the input data (R_{64} , R_{32}).
- 5) Method for a contactless data transmission system in accordance with
30 Patent Claim 2, **wherein** the same encoding algorithm (A64) is used
 for the various formats of the input data (R_{64} , R_{32}).
- 6) Method for a contactless data transmission system in accordance with
 Patent Claim 3, **wherein** the same encoding algorithm (A64) is used
 for the various formats of the input data (R_{64} , R_{32}).

- 7) Method for a contactless data transmission system in accordance with Patent Claim 1, **wherein** the same secret code (CODE) is used for the various formats of the input data (R_{64} , R_{32}).
- 5 8) Method for a contactless data transmission system in accordance with Patent Claim 2, **wherein** the same secret code (CODE) is used for the various formats of the input data (R_{64} , R_{32}).
- 10 9) Method for a contactless data transmission system in accordance with Patent Claim 3, **wherein** the same secret code (CODE) is used for the various formats of the input data (R_{64} , R_{32}).
- 15 10) Method for a contactless data transmission system in accordance with Patent Claim 4, **wherein** the same secret code (CODE) is used for the various formats of the input data (R_{64} , R_{32}).